



The Sol Series Cordex Rectifiers bring advanced technology to the DC power industry. Innovative engineering combines the best in efficiency and reliability meeting the power requirements for a variety of system applications. This rectifier is specifically designed to recharge all types of stationary batteries for large utility, petrochemical and industrial uses.

The Sol Series Cordex 1.1kW is a compact 4RU allowing six rectifiers per 19" shelf. In addition to a range of standard features, the convection cooling will maintain ideal operating temperatures in the often dusty environments of utility applications.

Local and remote setup, adjustment and control is a simple, single-step process with the Sol Series Cordex CXC System Controller. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a network web browser.

- + Switch mode rectifier provides 8.8A output @ 125Vdc
- + Power limiting and wide range AC input
- + 93% efficiency with power factor correction
- + Convection cooled
- + Hot swappable, 4RU ultra compact design

# 1.1kW

## 125Vdc Modular Switched Mode Rectifier

### Electrical

Input voltage:  
Nominal: ..... 208 to 277Vac  
Operating: ..... 176 to 320Vac  
Extended: ..... 176 to 150Vac (de-rated to 75%)  
Input frequency: ..... 45 to 66Hz  
Power output: ..... 1100W continuous/module  
Power factor: ..... >0.99 (input current)  
THD: ..... <5%  
Efficiency: ..... >93%  
Output voltage: ..... 90 to 180Vdc  
Output current: ..... 8.8A @ 125Vdc (11A max)  
Load regulation: ..... Static <±0.5%  
Line regulation: ..... Static <±0.1%  
Transient response: .... <±2% for 50 to 100% load step,  
10ms recovery time  
Wide band noise: ..... <30mVrms  
<150mVp-p  
Insulation: ..... 2.5kVac input-earth  
3kVac input-output  
2kVac output-earth  
0.5kVac signals-earth

### Mechanical

Dimensions:  
mm: ..... 177H x 71W x 250D  
inches: ..... 6.9H x 2.8W x 9.8D  
Weight: ..... 2.9kg (6.4lbs)

### Agency Compliance

The Cordex™ 1.1kW is designed to meet the following:  
Safety: ..... CSA C22.2 No 60950-1-03  
UL 60950-1 1st edition  
CE marked  
IEC/EN 60950-1  
EMC: ..... ETSI 300 386  
Emissions: ..... CFR47 (FCC) Part 15 Class A  
ICES-03 Class A  
EN55022 (CISPR 22) Class A  
C-Tick (Australia)  
EN 61000-3-2, 3-3  
Immunity: ..... EN 61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-11  
ANSI/IEEE C62.41 Cat B3

### Environmental

Temperature:  
Operation: ..... -40 to 50°C (-40 to 122°F)  
(up to 70°C/158°F power de-rated)  
Storage: ..... -50 to 85°C (-58 to 185°F)  
Humidity: ..... 0 to 95% RH non-condensing  
Elevation: ..... -500 to 4000m (-1640 to 13120ft)  
Heat dissipation: ..... <282 BTU per hour (max)

### Performance/Features

Indicators: ..... AC mains OK — green LED  
Module OK — green LED  
Module alarm — red LED  
Cooling: ..... Natural convection  
Adjustments: ..... Float and equalize voltage  
(via CXCI controller) ... Battery test voltage  
High and low voltage alarms  
High voltage shutdown  
Current limit  
Start delay time  
Slope %  
Protection: ..... Current limit/short circuit  
Input/output fuses  
Output high voltage shutdown  
Output power limiting  
Thermal foldback/shutdown  
Input transient  
AC low line foldback/shutdown  
AC high voltage shutdown  
Earth leakage alarm

### Shelves

P/N: 030-740-20  
>19" shelf (6 modules)  
Dimensions:  
mm: ..... 177H x 444W x 303D  
inches: ..... 6.9H x 17.5W x 11.9D  
Weight: ..... 7.3kg (16lbs)  
Mounting: ..... Fits 19" rack flush mount  
Fits 19" or 23" center mount  
Connections:  
Input: ..... Terminal blocks for 3 feeds  
4 – 6mm<sup>2</sup> (12 – 10AWG)  
Output: ..... 1/4" studs on 5/8" centers  
Chassis ground: ..... 1/4" stud  
CAN communication: .... RJ 12 offset

**HELIOS**  
POWER SOLUTIONS

**THE SOL SERIES**

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